NPS ARCHIVE
1959/V.3
ABEL, R.

A MANAGEMENT SURVEY

SIMMONS MACHINE TOOL CORPORATION, ALBANY, NEW YORK

V. 3

R. L. ABEL
AND OTHERS

ARCHIVE
ARCH
ANGEL, R.

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Able, R. L.

MANAGEMENT SEMINAR

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MONTEREY, CA 93943-5101

MANAGEMENT SURVEY

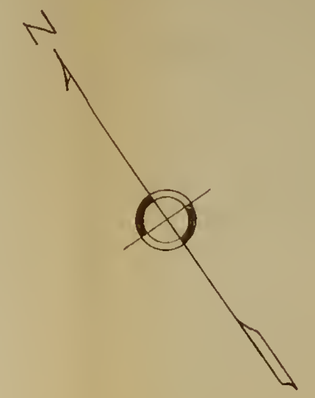
OF THE

SIMMONS MACHINE TOOL CORPORATION

ALBANY, NEW YORK

VOL. 3

1959



PROPERTY LINE

PROPERTY LINE

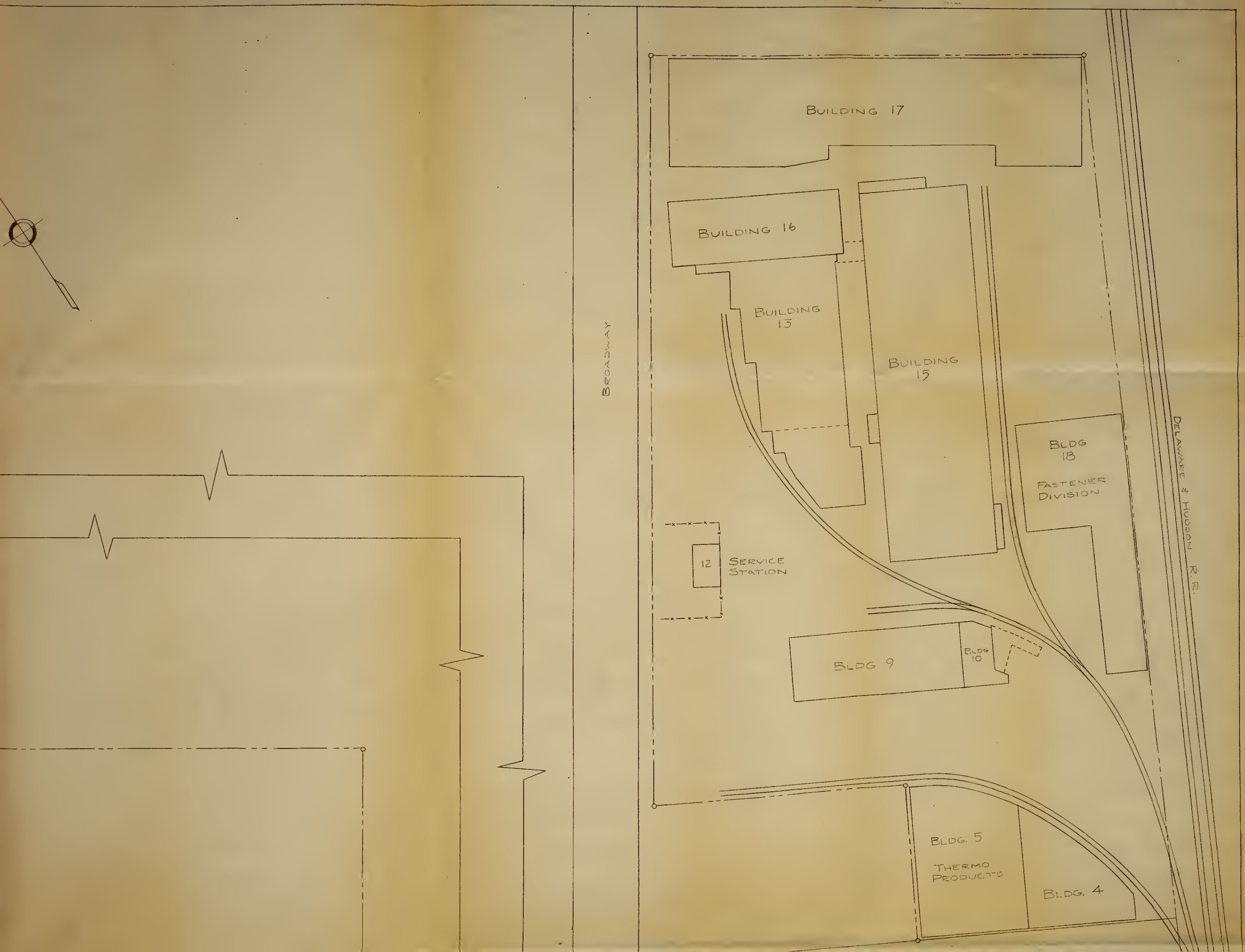
"STATE" BLDG.

MAIN ENTRANCE

KINGSTON AVE.

PROPERTY LINE

AMSTERDAM AVENUE


BUILDING 17
BUILDING 16
BUILDING 13
BUILDING 15
BROADWAY
BLDG 18
FASTENER DIVISION
DELAWARE & HUDSON R.R.
12
SERVICE STATION
BLDG 9
BLDG 10
BLDG. 5
THERMO PRODUCTS
BLDG. 4

12 SERVICE STATION

BLDG 9

BLDG 10

HUDSON R. R.

BLDG. 5
THERMO PRODUCTS

BLDG. 4

SIMMONS LANE

BROADWAY

BLDG. 3
MACHINE SHOP

BLDG. 1

BLDG. 2

PROPERTY LINE

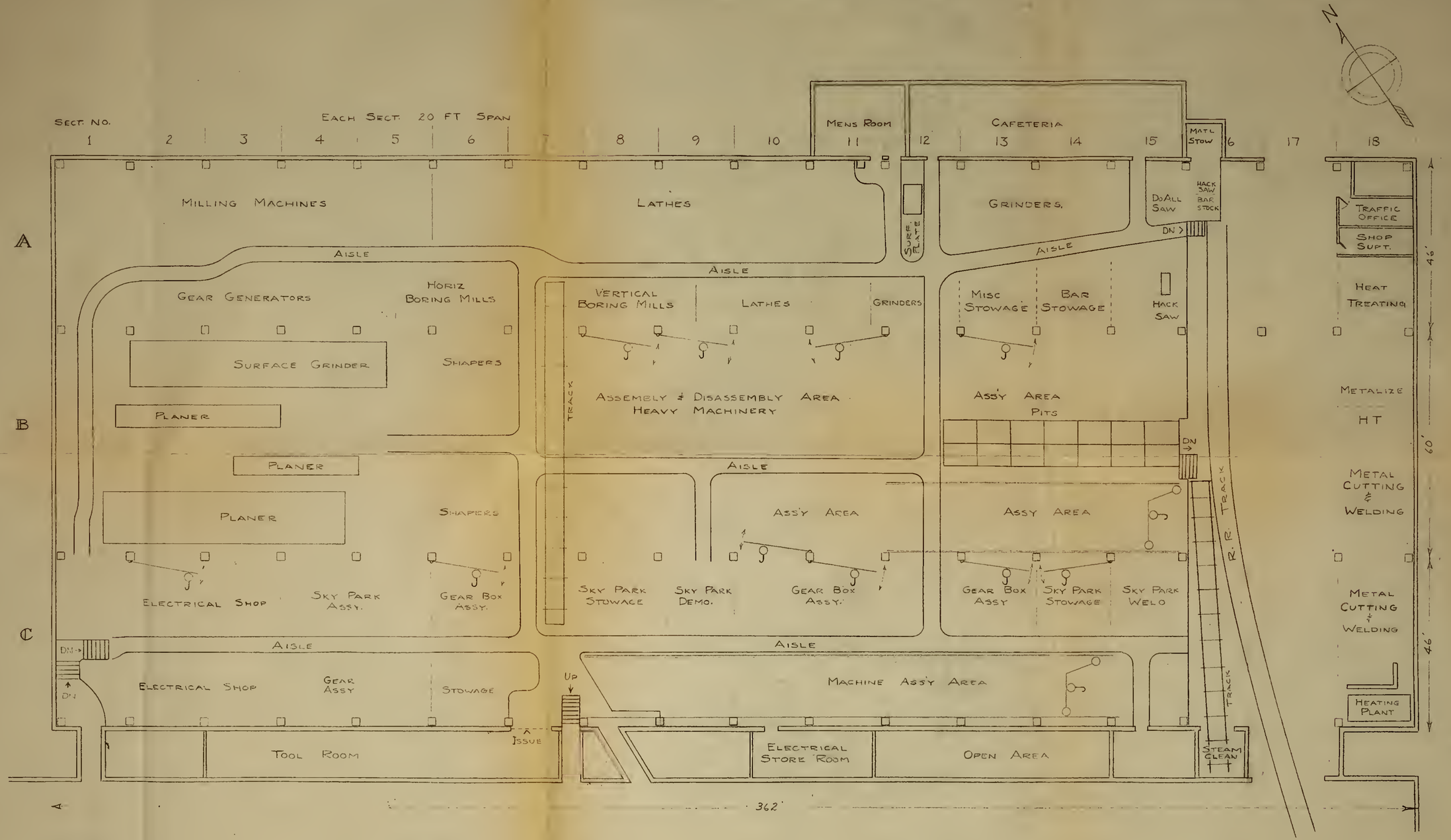
NAVY POSTGRADUATE PROGRAM
RENSSELAER POLYTECHNIC INSTITUTE
MANAGEMENT ENGINEERING SEMINAR G 6.80

SIMMONS MACHINE TOOL CORPORATION
ALBANY, NEW YORK
BUILDINGS AND PROPERTY

DATE 15 MAR 1959 SCALE 1 INCH = 50 FT.

DWG. NO. 1

Thesis



LEGEND

- □ BUILDING COLUMN
- JIB CRANE 1 TON "BUGIT" HOIST
- TRAVELING HOIST 2 TON CAP.

NOTES

1. SIDE BAYS A & C CLEARANCE 30', 20' TO CRANE RAILS
2. CENTER BAY B CLEARANCE 40', 30' TO CRANE RAILS
3. CRANES BAYS A & C ONE EACH WHITING 20 TON
   BAY B TWO EACH 50 TON
4. POWER AC 3 ϕ 220 V Δ 200 KVA.
   DC 230 V. 225 KW. (2 Ea. 100 kw MG SETS + 25 kw AUX.)
   AIR 100 PSI 4 15 HP UNITS
5. LIGHTING FLUORESCENT FIXTURES 10 FOOT SPACING
   INCANDESCENT 1000 WATT ON 20 FOOT CENTERS ALTERNATING WITH
   MERCURY VAPOR ON 20 FOOT CENTERS

NAVY POSTGRADUATE PROGRAM
RENSSELAER POLYTECHNIC INSTITUTE
MANAGEMENT ENGINEERING SEMINAR G 6.80

SIMMONS MACHINE TOOL CORPORATION
ALBANY, NEW YORK
MACHINE SHOP LAYOUT - BLDG NO 3

DATE 24 FEB 1959 SCALE 1/16 IN. = 1 FT.

DWG NO. 2

Thesis
B154
v.3

STEARATING ROOM

TUMBLERS

WET TUMBLER

HANDLING SCALE

REEL 1

REEL 2

REEL 3

WIRE STRAIGHTENING MACHINES

STOWAGE BINS 4 EA

SHELVES

SHELVES

SERRATING MACHINE

FILES

B

B

DP MOT.

DESK

DESK

POWER LACERS

1

2

B

B

HAND LACERS (2)

HAND MILLS (2)

MACO PP

T

ASSY BENCH

RIVET

PP

DRILL PRESS (2)

3

TOGGLE PRESS

4

ASSY BENCH

ASSY BENCH

RIVET SPINNER

PRODUCTION DEPT

STORAGE AREA

HARDWARE STORAGE

BOTTOM TIER - 8 BINS

56 1/2 x 42 x 35

TOP TIER - 5 BINS

30 1/2 x 17 x 30

SLOTTER

BENCH

9

8

7

6

5

PRODUCTION DRILLING MACHINES (2 SP)

HAND LACERS (2)

P

FLARING MACH

B

FOOT PRESS

FOOT PRESS

DEGREASE TANKS

BENCH

TOTE PAN STOWAGE 10' HIGH

SHEET METAL & STEEL BAR STOCK STOWAGE RACK

OIL BARREL STORAGE

ASSY PRESS

BELT

4

3

2

1

TOTE PAN STORAGE 10' HIGH

2

12

5

6

5

7

4

3

1

2

INSERT PRESSES

PRODUCTION INSERT PRESSES

OVERHEAD DOOR 15 FT CL.

UNLOADING AREA

PLATFORM SCALE

STORAGE AREA COIL STEEL

DENNISON MULTI-PRESS

TOTE PAN STOWAGE

DENNISON MULTI-PRESS

BLISS PUNCH PRESSES (2)

TOLEDO PRESS

TOLEDO PRESS

PUNCH PRESS

BENCH INSP.

ROCKWELL TESTER

ASSY BENCH

ASSY BENCH

ASSY BENCH

RIVET MACH

INSPECTION BENCH

INSPECTION BENCH

AIR TANK

AIR COMP

WATER TANK

MENS LOCKER ROOM

WOMENS LOCKER ROOM

UP

VENDING MACH

MENS WASH ROOM

WOMENS WASH ROOM

WOMENS LAV.

MENS LAV.

SHEAR

SHEAR

SHEAR

SLOTTER

SHEAR PRESS

SHEAR PRESS

SHEAR PRESS

ASS'Y PRESS

OVERHEAD DOOR 15 FT CL.

UNLOADING AREA

PLATFORM SCALE

STORAGE AREA COIL STEEL

DENNISON MULTI-PRESS

TOTE PAN STORAGE

TOLEDO PRESS

DENNISON MULTI-PRESS

BLISS PUNCH PRESSES (2)

TOLEDO PRESS

PRODUCTION INSERT PRESSES

TOTE PAN STORAGE 10' HIGH

OIL BARREL STORAGE

ASSY PRESS

SHEET METAL & STEEL BAR STOCK STORAGE RACK

INSERT PRESSES

PRODUCTION DEPT

PENCIL INSP.

ROCKWELL TESTER

INSPECTION BENCH

INSPECTION BENCH

AIR TANK

AIR TANK

WATER TANK

MENS LOUNGE ROOM

WOMENS LOUNGE ROOM

UP

MENS WASH ROOM

WOMENS WASH ROOM

VENDING MACH.

WOMENS LAV.

MENS LAV.

SHELVES - TOOL & DIE STORAGE

SHELVES - TOOL & DIE STORAGE

SHELVES

SHELF STORAGE

MILL MACH.

ASST PRESS

SHEAR PRESS

SLOTTER

SHEAR PRESS

DP

DP

DP

MAG DR

GR.

ASS'Y BENCH

VISE

PUNCH PR

SPOT WELDER

T

CABINETS

SHELVES

ARC WELD

OXY-ACET WELD

WELD BNCH

ROLLER ASSEMBLY PRESSES (3)

TOOL CRIB & STORE ROOM

SCALE

T

DES.

SHELF STORAGE

STORAGE

PAPER SHEAR

TONGUE MACH

ISSUE

RWE HACK SAW

TOOL STORAGE

SHELF STORAGE

BAR STOCK RACK

SCALES (WT COUNT)

DOCK

FOOT PRESS

FOOT PRESS

FOOT PRESS

BENCH

DIAMOND PUNCH PRESS

RIVET MACH

SLITTER

BENCH

STORAGE

SHIPPING & RECEIVING DEPARTMENT

6

7

DIAMOND PRESS

HAND SHEAR

HAND PUNCH

DP

TIME CLOCK

ELECT WELDER (PORT.)

CABINETS

ASS'Y BENCH

BENCH

BENCH

DESK

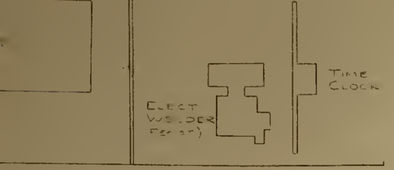
FILE

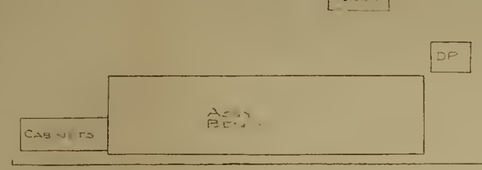
SCALE

LEGEND

- Roof Support Column
- Material Reels, Wire
- Steel Strip
- B — Bench
- BM — Bench, Metal Top
- T — Table
- TT — Tool Table
- DP — Drill Press
- PP — Punch Press
- PR — Press

N





LEGEND:

ROLL SUPPORT COLUMN

MATERIAL REELS, WIRE

STEEL STOCK

BENCH

BENCH, METAL TOP

TABLE

TOOL TABLE

DRILL PRESS

PUNCH PRESS

PRESS

NAVY POSTGRADUATE PROGRAM
RENSSELAER POLYTECHNIC INSTITUTE
MANAGEMENT ENGINEERING SEMINAR G 630

SIMMONS MACHINE TOOL CORPORATION
FASTENER DIVISION
SHOP LAYOUT BLDG 18

DATE 7 MAR 1959 SCALE 1/4 IN. = 1 FT.

DWG NO. 3

Thesis
A 21

STEARATING ROOM

TUMBLERS

WET TUMBLER

TUMBLER STORAGE AREA 12 BARRELS

DEGREASE TANKS

OIL BAL STORAGE

SOLV

HYDRO

MACH

CUT.

PRODUCTION DRILLS (8)

1 2 3 4 5 6 7 8

DP

HAND MILLS (2)

MACO PP

SIMMONS MICRO-SPEED TURRET LATHES (2)

FLARING MACH.

RESISTANCE WELDER

SPOT WELDER

SHEAR PRESS (HAND)

DP

HAND PUNCH

ASSY. BENCH

DP

MOD DP No. 2 LL

MACO PP

MOD DP SPR LOCK

MACO PP

SLOTTERS (2)

DIAMOND PUNCH PRESSES (3)

1 2 3

TOLEDO PRESS

POWER LACERS (2)

FOOT PRESSES (2)

FILES

DESK

DESK

HAND LACERS (5)

ASSY BENCH

ASSY BENCH

FP

FP

ASSY BENCH

ASSY BENCH

RIVET MACH

ASSY BENCH

ASSY BENCH

AISLE 7 FT.

AISLE

H.T. OVEN

TOTE PAN STOWAGE 10 FT HIGH

TOTE PAN STOWAGE 10 FT. HIGH

WIRE STRAIGHTENING MACHINES

10 DAMINE

(MOD. F

10 6 8 9 5 7

OVERHEAD DOOR CL 15 FT.

POWER HACK-SAW

SHEET METAL & BAR STOCK STORAGE RACK

BRAKE

SHEAR

PR

TOLEDO PUNCH PRESS 30T

TOLEDO PUNCH PRESS 60T

20T

BLISS PUNCH PRESSES (2)

4 3 1 2

AISLE

B & J MILL

THOMAS PUNCH PRESS

CURTAIN

WELDING AREA

WELD BENCH

ARC WELD

SHEAR PRESS

SHEAR PRESS

SHEAR PRESS

SHEAR PRESS

DO-ALL SAW

TT

DO ALL SAW

DP

B (MT)

DP

AIR TANK

AIR COMP

WATER TANK

HEATING PL

UP

MENS LOCKER ROOM

WOMENS LOCKER ROOM

VENDING MACHINES

MENS WASH ROOM

WOMENS WASH ROOM

WOMENS LAV

MENS LAV

ENTRY

N

OVERHEAD DOOR CL 15 FT.

WIRE STRAIGHTENING

MACHINE

INSERT MACHINE

10 DAMPER (MISC.)

POWER HACK-SAW

SHEET METAL & BAR STOCK STORAGE RACK

BRAKE

SHEAR

PR

TOLEDO PUNCH PRESS 30 T

TOLEDO PUNCH PRESS 60 T

20 T

BLISS PUNCH PRESSES (2)

AISLE

CURTAIN

WELDING AREA

WELD BENCH

ARC WELD

THOMAS PUNCH PRESS

SHEAR PRESS

SHEAR PRESS

SHEAR PRESS

SHEAR PRESS

DO-ALL SAW

DO ALL SAW

TT

B & J MILL

B (MT)

DP

DIE PRESS

TENSILE TESTER

ROCKWELL TESTER

SURF PLATE

B & S MILL

T

SIMMONS MILL

VAN NORMAN MILL

TOOL CRIB & DIE STORAGE

ISSUE

B MT

TOOL GR

GR

B & S

DUST COL.

MORTON

BRIDGEPORT

GRINDERS (5)

FELLOWS

SUNDSTRAND LATHE

LATHE (MUD)

BRYANT GRINDER

SHELDON LATHE

SB LATHE

HENDEY LATHE

DP

SHAPER

THERMO ELECT. OVEN

SPR. WIND

WELD BENCH

TANKS

UP

VENDING MACHINES

MENS LOCKER ROOM

WOMENS LOCKER ROOM

MENS WASH ROOM

WOMENS WASH ROOM

WOMENS LAV

MENS LAV

AIR TANK

AIR COMP

WATER TANK

HEATING PL

N

ENTRY

OFFICE

GEN. OFFICES

MGRS OFFICE

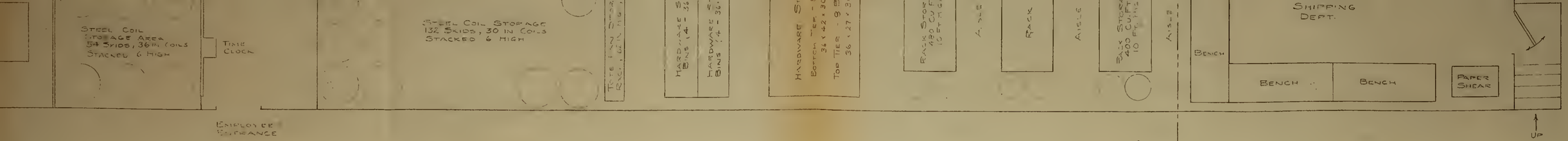
OFFICE

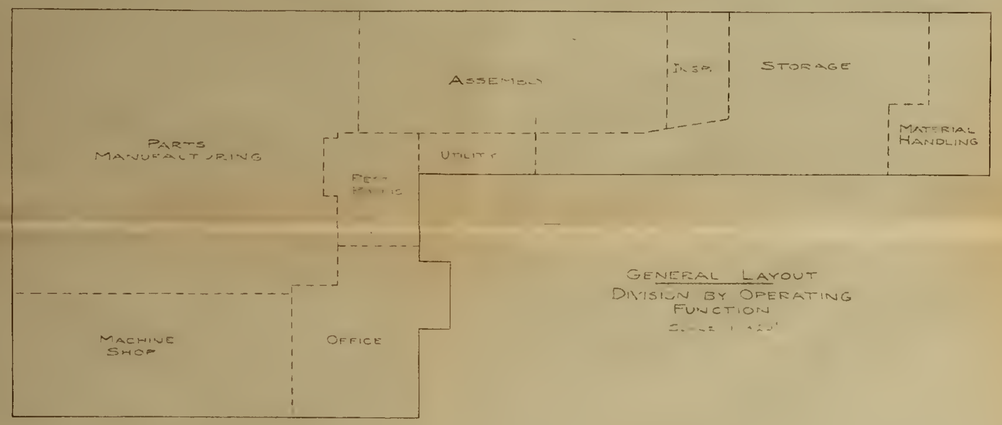
OFFICE

Belt Sander
Assy Pr.
Assy Bench
Punch Press
Power Vise
Bench
Assy Press
Assy Press
Assy Press
4
5
Diamond Presses (2)
Rivet Mach.
Dennison Multi Press
Dennison Multi-Press
Assy Bench
Assy Bench
Foot Presses (3)
Torque Mach.
Roller Assy Presses (3)
B
B
B
B
Inspection Area
Tote Pan Stowage Rack 48 Pans
Stock Rack Storage 640 Cu. Ft., 16 Ft. High
A
A
Aisle (42')
Rack
Aisle
Rack
Aisle
Rack
Aisle
Rack Storage 640 Cubic Feet 10 Ft. High
Aisle (42')
Rack
Desk
Files
Desk
Office
Material Control
Shipping & Receiving
Clock
Shipping Dept. Bench
Portable Wt. Count Scale
Weight Count Platform Scale
Door
8 Foot Aisle
Plant
Steel Coil Storage Area
54 Skids, 36 in. Coils
Stacked 6 High
Time Clock
Employees Entrance
Steel Coil Storage
132 Skids, 30 in Coils
Stacked 6 High
Tote Pan Storage Rack, 62 in. High, 10 Pans Per Unit
Hardware Storage Bins (4 - 36 x 27 x 30 in.)
Hardware Storage Bins (4 - 36 x 27 x 30 in.)
Hardware Storage
Bottom Tier - 8 Bins
36 x 42 x 30
Top Tier - 8 Bins
36 x 27 x 30
Rack Storage 48 Cu. Ft. 10 Ft. High
Aisle
Rack
Aisle
Rack Storage 403 Cu. Ft. 10 Ft. High
Aisle
Wt Count Scale
Platform Scale
Shipping Dept.
Bench
Bench
Bench
Paper Shear
Up
A
A

Assembly
Insp.
Storage
Material Handling
Parts Manufacturing
Utility
Repair Parts
General Layout

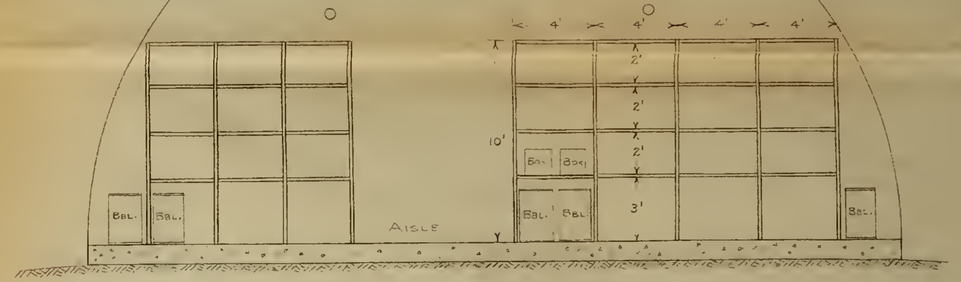
Section A-A





GENERAL LAYOUT
DIVISION BY OPERATING FUNCTION
SCALE 1 IN. = 100'

SECTION A-A



LEGEND

- ⊠ ROOF SUPPORT COLUMN
- MATERIAL REELS
  - WIRE AND STEEL STRIP STOCK
- K INDICATES OPERATOR'S POINT OF REQUIRED ACCESS AT MACHINE

B	BENCH
B (MT)	BENCH, METAL TOP
T	TABLE
TT	TOOL TABLE
DP	DRILL PRESS
PP	PUNCH PRESS
PR	PRESS
FP	FOOT PRESS

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SIMMONS MACHINE TOOL CORPORATION
FASTENER DIVISION
PROPOSED LAYOUT BUILDING 18.
DATE 4 APR 1959 SCALE 1/4 IN. = 1 FT.

DWG NO. 4

Thesis
H1644

thesA164
A management survey ... Simmons Machine
3 2768 001 90880 9
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